NC/PMC/YD/W1/2018-19/C1

Date: 17-12-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvement to roads and drains at Maruthinagara, Papanna Badavane balance main and cross roads in Ward no-01, Yelahanka sub division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager (West), KRIDL.

PHYSICAL TESTS ON CEMENT

Brand : ACC
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**155 min**	Shall not be less than 30 min
2	Final setting time	**265 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.45 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.65 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results) b) 7 days (average of three results)	**28.05 N/Sq mm** **40.15 N/Sq mm**	Shall not be less than 27 N/Sqmm Shall not be less than 37N/Sqmm

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NC/PMC/YD/W1/2018-19/PCC1 **Date: 17-12-2018**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvement to roads and drains at Maruthinagara, Papanna Badavane balance main and cross roads in Ward no-01, Yelahanka sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager (West), KRIDL.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	68.25	0 -20	30- 70
10mm	25.10	0 -5	10- 35
4.75mm	2.10	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.35	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	89.25	60-95	75-100	85-100	
01.18	75.15	30-70	55-90	75-100	
600.mic	44.10	15-34	35-59	60-79	
300.mic	26.80	5-20	8-30	12-40	
150.mic	7.05	0-10	0-10	0-10	

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Date: 26-12-2018

NC/PMC/YD/W1/2018-19/G2

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (with close graded materials, Grade-II) mix.
{Project*: Improvement to roads and drains at Maruthinagara, Papanna Badavane balance main and cross roads in Ward no-01, Yelahanka sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager (West), KRIDL.

TEST RESULTS

1. **Gradation Test:**

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
26.50	96.35	70-100
9.50	65.90	50-80
4.75	55.25	40-65
2.36	41.05	30-50
0.425	12.65	10-15
0.075	3.95	<5

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